

A B S T R A C T

A SYSTEM FOR PROVIDING ASSISTANCE IN REGENERATING
DEPOLLUTION MEANS INTEGRATED IN AN EXHAUST LINE OF A
5 VEHICLE DIESEL ENGINE

This system, in which the depollution means (1) are associated with oxidation catalyst-forming means (2), and the engine (4) is associated with common rail means (7) 10 for feeding it with fuel and adapted to implement a regeneration strategy using at least one post-injection of fuel into the cylinders, is characterized in that it includes means (8) for detecting a request (req.RG) for regeneration, means (9, 10) for detecting a state in 15 which the vehicle accelerator pedal is being raised or a stage in which the engine is idling, means (11) for acquiring the temperature downstream from the catalyst-forming means, means (8) responsive to said temperature to determine a maximum duration of post-injection 20 application during stages of idling and during stages of returning to idling as a result of the accelerator pedal being raised, and means (7, 8) for immediately interrupting post-injection if the duration of post-injection utilization reaches the maximum duration during 25 a stage of returning to idling, and/or for progressively reducing post-injection if the utilization duration reaches the maximum duration during a stage of the idling.

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35 Translation of the title and the abstract as published by the PCT Authorities, possibly after making changes, ex officio, e.g. under PCT Rules 37.2, 38.2, and/or 48.3.